

Appl. Serial No.: 10/603,946  
Amendment dated April 5, 2005  
Reply to Office action of January 27, 2005

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A system for in-situ verification and calibration of flow control devices, comprising:
  - a flow verification device;
  - a first network physical layer for connecting the flow control devices to the flow verification device; and
  - a second network physical layer connected to the flow verification device;

wherein a controller of the flow verification device is programmed to verify and, if necessary, calibrate the flow control devices over the first network physical layer based upon a single command provided through the second network physical layer.
2. (Currently amended) A system according to claim 1, wherein the first network physical layer comprises a EtherNet/IP network physical layer.
3. (Currently amended) A system according to claim 1, wherein the second network physical layer comprises a DeviceNet™ network physical layer is based on a broadcast-oriented, communications protocol.
4. (Original) A system according to claim 1, wherein the flow verifier is a rate-of-rise flow verifier.

Appl. Serial No.: 10/603,946  
Amendment dated April 5, 2005  
Reply to Office action of January 27, 2005

5. (Currently amended) A system according to claim 4, wherein the flow verifier is a GBROR™ modular, in-situ flow verifier.

6. (Currently amended) A system according to claim 4, wherein the flow verifier is a Tru-Flo™ process transparent, in-situ flow verifier.

7. (Original) A system according to claim 1, further comprising flow control devices connected to the first network physical layer.

8. (Original) A system according to claim 7, wherein the flow control devices comprise pressure insensitive type mass flow controllers.

9. (Original) A system according to claim 1, further comprising a hub connected to the first network physical layer.

10. (Original) A system according to claim 9, wherein the hub comprises a BlueBox™ communications manager that can support connectivity software for data collection and routing.

11. (Original) A method for in-situ verification and calibration of flow control devices, comprising:

connecting a flow verification device to the flow control devices through a first network physical layer;

connecting a second network physical layer to the flow verification device; and

programming a controller of the flow verification device to verify and, if necessary, calibrate the flow control devices over the first network physical layer based upon a single command provided through the second network physical layer.

Appl. Serial No.: 10/603,946  
Amendment dated April 5, 2005  
Reply to Office action of January 27, 2005

12. (Currently amended) A method according to claim 11, wherein the first network physical layer comprises a an EtherNet/IP network physical layer.

13. (Currently amended) A method according to claim 11, wherein the second network physical layer comprises a ~~DeviceNet™ network physical layer is based on a broadcast-oriented, communications protocol~~.

14. (Original) A method according to claim 11, wherein the flow verifier is a rate-of-rise flow verifier.

15. (Currently amended) A method according to claim 14, wherein the flow verifier is a GBROR™ modular, in-situ flow verifier.

16. (Currently amended) A method according to claim 14, wherein the flow verifier is a Tru-Flo™ process transparent, in-situ flow verifier.

17. (Original) A method according to claim 11, wherein the flow control devices comprise pressure insensitive type mass flow controllers.

18. (Original) A method according to claim 11, further comprising connecting a hub to the first network physical layer.

19. (Currently amended) A method according to claim 18, wherein the hub comprises a BlueBox™ communications manager that can support connectivity software for data collection and routing.

20. (Original) A method according to claim 11, wherein the flow verification device is put in fluid communication with the flow control devices through a gas manifold.